

5

CLAIMS

1. Cooling system for a mobile terminal for wireless communication comprising a rotating fan (1) for reducing the heat generated by the mobile terminal and at least one weight (3) for causing an unbalance of the rotation of the fan (1) in order to cause vibration of the fan,
10 whereby said weight is activated when the rotational speed of the fan (1) exceeds a predefined level.
2. System according to claim 1,
15 **characterised in**
that the fan (1) consists of blades (2).
3. System according claim 2,
20 **characterised in**
that the fan (1) consists of four blades (2).
4. System according to claim 2 or 3,
25 **characterised in**
that each weight (3) is attached to one blade (2).
5. System according to claim 4,
30 **characterised in**
that at least one blade (2) has no attached weight (3).
6. System according to any of claims 2 to 4,
35 **characterised in**
that the weight (3) is held to the centre (4) of the fan (1) by a spring (5).
7. System according to claim 6,
40 **characterised in**
that the weight (3) is movable along the blade (2).
8. System according to claim 7,
45 **characterised in**
that the weight (3) is guided along the blade (2) by a bar (8, 9, 10, 11).

9. System according to claim 8,
characterised in
that the weight (3) encompasses the blade (2).

5 10. System according to claim 1,
characterised in
that the weight (3) is coupled to the fan (1) by a clutch (12).

10 11. System according to claim 10,
characterised in
that the weights (3) and the fan (1) have a common rotational axis (7).

12. System according to claim 11,
characterised in
15 that the clutch (12) is a centrifugal clutch.

13. Mobile terminal for wireless communication having a cooling system according to any of the preceding claims.